This question paper cont	ains 4 printed pages]					
	Roll No.					
S. No. of Question Paper	: 8313					
Unique Paper Code	: 234163 C					
Name of the Paper	: CSCT 301 : Linux System Administration					
Name of the Course	: B.Sc. Mathematical Science (Concurrent Course)					
Semester	: I					
Duration: 3 Hours	Maximum Marks	: 75				
(Write your Roll No. on the top immediately on receipt of this question paper.)						
	Question No. 1 is compulsory.					
Attempt any Five questions from Q. No. 2 to Q. No. 8.						
1. Give answers to the	following questions:					
(i) Which comma	and in Linux is used to test a network connection?	(1)				
(ii) What is Cal command? If no arguments are supplied, what is displayed?						
(iii) What do you	understand by booting ?	(2)				
(iv) What is the c	concept of plug-and-play ?	(2)				
(v) What are the t	hree main features of Linux ?	(3)				
(vi) What are the v	various file systems available in Linux ?	(3)				

		(2)	8313
	(vii)	What is the ghostscript program ?	(3)
	(viii) What are the uses of the following commands ?	(3)
		(a) chmod	
		(b) passwd	
	(ix)	Write the full form of the following network services:	(3)
		(a) DHCP	
		(b) HTTP	
		(c) SNMP.	
	(x)	What do you understand by configuring a system?	(3)
2.	(a)	What is an Operating System ? Explain the different types of Operating System	ns with
		example.	(5)
	(b)	Explain the process of installation of Linux operating system. List two p	popular
		distributions available in market.	`(5)
3.	(a)	What do you understand by Shell? What is the use of an alias in Shell? C	Give an
		example.	(5)
	(b)	Explain with the help of an example that how to send message to other users in	ı Linux
		environment. Also explain the command which is used to avoid mail disturbance.	(5)

4.	(a)	What is the role of init process and init script of Linux operating system	n ? (5)
	(b)	What is the need for a rescue disk and how it is created?	(5)
5.	Expl	lain the following Linux shell script commands along with examples:	(2×5)
	(i)	diff	
	(ii)	· grep	
	(iii)	if fi	
	(iv)	tar	
	(v)	tail -	
6.	Wha	at are the outputs of the following given commands?	(2×5)
	(i)	ls -1	
	(ii)	date "+DATE:%"	
	(iii)	who am i	
	(iv)	pwd	
	(v)	chmod 755 <file name=""></file>	

(4)

- 7. (a) Write a shell script to find the greatest number among the three numbers. (5)
 - (b) Write a shell script to check if the number entered at the command line is prime or not. (5)
- 8. Write short notes on the following: (5×2)
 - (a) Multiuser operating system;
 - (b) DHCP and FTP.